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THE SILVER INSTITUTE

A WORLDWIDE ASSOCIATION OF MINERS, REFINERS, FABRICATORS AND MANUFACTURERS

INCORPORATED 1971

SUITE 1138, 1001 CONNECTICUT AVENUE, N. W.
WASHINGTON, D. C. 20036

MINE PRODUCTION OF SILVER

IN

1979

WITH PROJECTIONS FOR

1980

1981

1982

1983

THE SILVER INSTITUTE

MINE PRODUCTION OF SILVER

This report presents the mine production of silver in all of the 60 countries of the world which are known to be now producing silver from mines. Of these, 51 are designated as International Trade Countries in this presentation since there is a continual movement of silver between them. The other 9 are Eastern Bloc Countries which do not participate so much in the international movements of silver.

The first group is divided into three sections: the 5 countries each producing more than 20 million troy ounces per year; the 19 countries each producing 1 million to 20 million troy ounces per year; and the 27 countries each producing less than 1 million troy ounces per year.

In all sections, figures are arranged in the order of size of mine production of silver in 1979. For each country the actual figures for 1979 (as well as revised actual figures for 1978) are presented together with the projections for each of the succeeding four years.

The figures here presented refer to mine production of silver on the "accountable" basis, indicating the amount of silver which is credited to the mining company.

This study was made with the participation of 264 mining enterprises with headquarters in 36 countries throughout the world, as listed in the following pages, which gave The Silver Institute their reports and projections. The projections for 1980, 1981, 1982, and 1983 are the totals of individual companies' plans for their mine production of silver in each of these years. Increases and decreases from these plans in individual mines and countries often balance each other. However, there is the fact that any disasters, accidents, strikes, or operational delays will make the actual figures less than the projections. The actual silver mine production in the 51 international trade countries in 1979 was found to be 4.5% less than had been projected one year ago, 6.8% less than had been projected two years ago, and 6.7% less than had been projected four years ago.

Cooperation was obtained from Metallgesellschaft AG, United States Bureau of Mines, and various governmental departments of other countries for the purpose of completing the coverage of all mines in all countries.

Amounts are shown in millions of troy ounces for each country and group of countries, with metric ton equivalents for each group of countries.

June 1980

MINE PRODUCTION OF SILVER

ON ACCOUNTABLE BASIS

IN MILLIONS OF TROY OUNCES

INTERNATIONAL TRADE COUNTRIES

Countries producing more than 20 million troy ounces per year:

	---ACTUAL---		-----PROJECTIONS-----			
	1978	1979	1980	1981	1982	1983
Mexico	50.8	49.4	52.1	59.3	74.7	79.2
Peru	38.6	40.2	40.3	40.7	42.8	43.0
Canada	40.9	38.1	42.5	45.7	46.9	47.1
United States	38.9	37.1	39.8	42.8	49.2	49.3
Australia	23.1	24.8	26.5	26.0	28.1	29.8
Subtotal	192.3	189.6	201.2	214.5	241.7	248.4
<i>Equivalent in metric tons</i>	<i>5,981</i>	<i>5,897</i>	<i>6,258</i>	<i>6,672</i>	<i>7,518</i>	<i>7,726</i>
Change from previous year		-1%	+6%	+7%	+13%	+3%

Countries producing 1 million to 20 million troy ounces in 1979

Japan	10.7	8.9	8.9	8.9	8.9	8.9
Chile	*8.2	8.3	8.3	9.3	10.5	10.5
Bolivia	6.0	5.7	5.8	5.9	5.9	5.9
Sweden	5.7	5.7	5.5	6.3	6.5	6.4
Yugoslavia	4.7	5.2	5.2	5.2	5.2	5.2
Spain	1.7	3.4	3.5	3.5	3.4	3.4
South Africa	3.1	3.2	6.4	6.4	6.4	6.5
Zaire	2.9	2.9	3.2	3.1	2.2	2.4
South Korea	2.1	2.8	2.8	2.8	2.8	2.8
France	2.5	2.4	2.4	2.2	2.2	2.2
Morocco	2.2	2.4	2.4	2.4	2.4	2.4
Dominican Republic	1.8	2.3	1.7	1.7	1.7	1.7
Honduras	2.5	1.9	2.2	2.4	2.6	2.6
Philippines	2.0	1.8	2.2	2.2	2.2	2.2
Argentina	1.6	1.8	2.2	2.2	2.2	2.2
Greece	1.6	1.7	1.7	1.8	1.8	1.8
South West Africa	1.4	1.6	1.6	1.7	1.7	1.7
Papua New Guinea	1.7	1.4	1.4	1.3	1.4	1.4
Italy	1.2	1.1	1.1	1.1	1.1	1.1
Subtotal	*63.6	64.5	68.5	70.4	71.1	71.3
<i>Equivalent in metric tons</i>	<i>*1,978</i>	<i>2,006</i>	<i>2,131</i>	<i>2,190</i>	<i>2,212</i>	<i>2,218</i>
Change from previous year		+1%	+6%	+3%	+1%	0%

Countries producing less
than 1 million troy ounces
in 1979

	---ACTUAL---		-----PROJECTIONS-----			
	1978	1979	1980	1981	1982	1983
German Federal Republic	.85	1.04	.95	.95	.94	.94
Finland	.86	.80	.81	.77	.74	.75
Indonesia	.65	.79	.87	1.00	1.00	1.00
Ireland	.90	.74	.53	.77	.15	.15
Denmark (Greenland)	.56	.62	.58	.59	.58	.59
India	.43	.45	.45	.45	.45	.45
Nicaragua	.58	.32	.12	.12	.12	.12
Brazil	.30	.32	.28	.28	.28	.28
Burma	.37	.27	.41	.50	.58	.58
Tunisia	.23	.23	.23	.23	.23	.23
Turkey	.22	.22	.22	.22	.22	.22
El Salvador	.11	.20	.20	.20	.20	.20
Algeria	.10	.10	.10	.10	.10	.10
Rhodesia	.10	.10	.10	.10	.10	.10
Colombia	.05	.10	.10	.10	.10	.10
Taiwan	.09	.09	.08	.16	.19	.23
Zambia	.10	.08	.10	.10	.10	.10
Ecuador	.07	.07	.07	.07	.07	.07
Mauritania	.03	.03	.03	.03	.03	.03
Portugal	.02	.03	.03	.03	.03	.03
Ghana	.02	.02	.02	.02	.02	.02
Kenya	.02	.02	.02	.02	.02	.02
Fiji	.02	.01	.01	.01	.01	.01
Guatemala	.01	.01	.01	.01	.01	.01
New Zealand	.01	.01	.01	.01	.01	.01
Tanzania	.01	.01	.01	.01	.01	.01
Great Britain	.01	.01	.01	.01	.01	.01
Subtotal	6.72	6.69	6.35	6.86	6.30	6.36
<i>Equivalent in metric tons</i>	209	208	198	213	196	198

TOTAL INTERNATIONAL TRADE COUNTRIES	*262.62	260.79	276.05	291.76	319.10	326.06
<i>Equivalent in metric tons</i>	*8,169	8,112	8,586	9,075	9,925	10,142
Change from previous year		-0.7%	+6%	+6%	+9%	+2%

EASTERN BLOC COUNTRIES

Soviet Union	*50.5	49.8	50.0	51.0	52.0	53.0
Poland	*21.9	23.0	24.5	24.5	24.5	24.5
China, People's Republic of	*1.5	2.0	2.0	2.0	2.0	2.0
North Korea	1.6	1.5	1.5	1.5	1.5	1.5
German Democratic Republic	1.5	1.5	1.5	1.5	1.5	1.5
Czechoslovakia	1.3	1.1	1.1	1.1	1.1	1.1
Romania	1.3	1.0	1.0	1.0	1.0	1.0
Bulgaria	1.0	0.8	0.8	0.8	0.8	0.8
Hungary	0.1	0.1	0.1	0.1	0.1	0.1

TOTAL EASTERN BLOC COUNTRIES	*80.7	80.8	82.5	83.5	84.5	85.5
<i>Equivalent in metric tons</i>	*2,510	2,513	2,566	2,597	2,628	2,659
Change from previous year		+0.1%	+2%	+1%	+1%	+1%

WORLD TOTAL	*343.32	341.59	358.55	375.26	403.60	411.56
<i>Equivalent in metric tons</i>	*10,679	10,625	11,152	11,672	12,554	12,801
Change from previous year		-0.5%	+5%	+5%	+8%	+2%

*Revised

CONTRIBUTORS OF INFORMATION
ON
MINE PRODUCTION OF SILVER

IN 1979 WITH PROJECTIONS FOR 1980 - 1981 - 1982 - 1983

MEXICO

Campana de Plata S.A.,
Zacualpán, México
Comisión de Fomento Minero,
Parral, Chihuahua
Compañía Fresnillo S.A.,
México, D. F.
Compañía Minera La Campana S.A.,
Reforma, Chihuahua
Compañía Minera La Negra y Anexas S.A.,
Maconi, Querétaro
Compañía de Real del Monte y Pachuca,
Pachuca, Hidalgo
García y Cisneros,
México, D. F.
Industrial Minera México S.A.,
México, D. F.
Industrias Peñoles S.A.,
México, D. F.
La Encantada S.A.,
Ocampo, Coahuilla
Minera Guadalupe S.A.,
Real de Guadalupe, Guerrero
Minera Lampazos, S.A. de C.V.,
México, D. F.

Minera Mexicana Peñoles S.A.,
Topia, Durango
Minera Mexicana Sombrerete S.A.,
Sombrerete, Zacatecas
Minera Real de Angeles S.A. de C.V.,
Zacatecas, Zacatecas
Minera San Francisco del Oro S.A.
de C.V., México, D. F.
Minera Victoria Eugenia S.A.,
Chalchihuites, Zacatecas
Minerales de Bolanos S.A. de C.V.,
Guadalajara, Jalisco
Restauradora de las Minas de
Catorce S.A., San Luis Potosí
Rosario México S.A. de C.V.,
México, D. F.
Unidad El Bote,
México, D. F.
Unidad Guanaceví,
México, D. F.
Unidad Minero Metalurgica El Bote,
Zacatecas, México
Unidad Parilla,
México, D. F.

CANADA

Bethlehem Copper Corporation,
Vancouver, British Columbia
Black Hawk Corporation,
Toronto, Ontario
Brunswick Mining & Smelting Corp., Ltd.
Bathurst, New Brunswick
Campbell Chibougamau Mines Ltd.,
Toronto, Ontario
Canada, Energy, Mines & Resources
Ottawa, Ontario
Canadian Superior Mining Ltd.,
Vancouver, British Columbia
Cominco Limited,
Trail, British Columbia
Consolidated Rambler Mines Ltd.,
Saint John, New Brunswick

Cyprus Anvil Mining Corporation,
Vancouver, British Columbia
Dankoe Mines Limited,
Vancouver, British Columbia
Dickenson Mines Limited,
Balmerton, Ontario
Dome Mines Limited,
South Porcupine, Ontario
Echo Bay Mines Ltd.,
Edmonton, Alberta
Equity Mining Corporation,
Vancouver, British Columbia
Falconbridge Copper Limited,
Toronto, Ontario
Giant Yellowknife Mines Ltd.,
Yellowknife, N.W. Territories

CANADA Continued

Heath Steele Mines Limited,
Newcastle, New Brunswick
Hudson Bay Mining & Smelting Co., Ltd.,
Toronto, Ontario
Inco Metals Company,
Copper Cliff, Ontario
Kam Kotia Mines,
Toronto, Ontario
Lacana Mining Corporation,
Toronto, Ontario
Lake Shore Mines Limited,
Manitouwadge, Ontario
Lamaque Mining Company, Ltd.,
Val d'Or, Quebec
La Société Minière Louvem, Inc.,
Val d'Or, Quebec
Lemoine Mines Limited,
Chibougamau, Quebec
Mattagami Lake Mines Ltd.,
Toronto, Ontario
Mines Patino (Quebec) Limited,
Chibougamau, Quebec
Newmont Mines Limited,
Vancouver, British Columbia
Noranda Sales Corporation Ltd.,
Toronto, Ontario
Northair Mines Limited,
Vancouver, British Columbia
Pamour Porcupine Mines, Ltd.,
Timmins, Ontario
Placer Development Limited,
Vancouver, British Columbia
Renzy Mines Limited,
Willowdale, Ontario
Rio Algom Limited,
Toronto, Ontario
Selco Mining Corporation, Ltd.,
Toronto, Ontario
Sherritt Gordon Mines Limited,
Toronto, Ontario
Sigma Mines (Quebec) Limited,
Val d'Or, Quebec
Silvana Mines Incorporated,
Toronto, Ontario
Silver Standard Mines Ltd.,
Vancouver, British Columbia
Silver Tusk Mines, Ltd.,
Vancouver, British Columbia
Slocan Development Corp., Ltd.,
Vancouver, British Columbia
St. Joseph Explorations Limited,
Toronto, Ontario

Teck Corporation Limited,
Vancouver, British Columbia
Terra Mining & Exploration Ltd.,
Edmonton, Alberta
Texasgulf Incorporated,
Toronto, Ontario
Union Minière Canada,
Thierry Lake, Ontario
United Keno Hill Mines Ltd.,
Toronto, Ontario
Utah Mines Ltd., Island Copper
Mines
Port Hardy, British Columbia
Western Mines Limited,
Vancouver, British Columbia
Wesfrob Mines Limited,
Vancouver, British Columbia
Whitehorse Copper Mines Ltd.,
Whitehorse, Yukon Territory

UNITED STATES

AMAX Incorporated,
Greenwich, Connecticut
AMAX Lead & Zinc Division,
Clayton, Missouri
ASARCO Incorporated,
New York, New York
Altamont Mining Corporation,
Salt Lake City, Utah
Anaconda Company,
Stamford, Connecticut
Black Pine Mining Company,
Morristown, New Jersey
Bradley Mining Company,
San Francisco, California
The Bunker Hill Company,
Kellogg, Idaho
Callahan Mining Corporation,
Darien, Connecticut
Camp Bird Colorado, Inc.,
Salt Lake City, Utah
Cities Service Company,
Miami, Arizona
Clayton Silver Mines,
Wallace, Idaho
Coeur d'Alene Mines Corporation,
Wallace, Idaho
Cominco American, Incorporated,
Spokane, Washington
Cortez Gold Mines,
Cortez, Nevada

UNITED STATES Continued

Cyprus-Anvil Mines Corporation,
Los Angeles, California
Day Mines, Incorporated,
Wallace, Idaho
DeLamar Silver Mines,
Jordan Valley, Oregon
Duval Sales Corporation,
Houston, Texas
Earth Resources Company,
Golden, Colorado
Freeport Indonesia,
New York, New York
The Fresnoilto Company,
New York, New York
Hecla Mining Company,
Wallace, Idaho
Homestake Mining Company,
San Francisco, California
Idaho Mining Corporation,
Eureka, Nevada
Inspiration Consolidated Copper Co.,
Phoenix, Arizona
Intermountain Exploration Co.,
Boulder City, Nevada
Kay Mining & Milling Corporation,
Las Vegas, Nevada
Kennecott Copper Corporation,
New York, New York
Knob Hill Mines, Inc.,
San Francisco, California
Little Squaw Gold Mining Co.,
Spokane, Washington
Minerals Engineering Company,
Tucson, Arizona
The New Jersey Zinc Company,
Gilman, Colorado
Newmont Mining Company,
New York, New York
Phelps Dodge Corporation,
New York, New York
Rico Argentine Mining Co.,
Rico, Colorado
Rosario Resources Corporation,
New York, New York
St. Joe Minerals Corporation,
New York, New York
Shining Rock Mining Corp.,
Lyons, Oregon
Silver Dollar Mining Company,
Wallace, Idaho
Smoky Valley Mining,
Round Mountain, Nevada

Sunshine Mining Company,
New York, New York
Ward Development Inc.,
Missoula, Montana
West Coast Oil & Gas,
Sparks, Nevada
White Pine Copper Company,
White Pine, Michigan

PERU

Cía. Minera Atacocha S.A.,
Lima, Perú
Cía. de Minas Buenaventura S.A.,
Lima
Cía. Minera Chungar S.A.,
Lima
Cía. Minera Huampar S.A.,
Lima
Cía. Minera del Madrigal,
Lima
Cía. Minera Milpo S.A.,
Lima
Cía. Minera Raura S.A.,
Lima
Cía. Minerales Santander Inc.,
Lima
Empresa Minera del Centro
del Perú, Lima
Empresa Explotadora de Vinchos
Ltda., S.A., Lima
Northern Perú Mining Corp.,
Quiruvilca
Sindicato Minero Pacococha S.A.,
Lima
Southern Perú Copper Corp.,
New York, New York, U.S.A.
Volcán Compañía Minera S.A.,
Lima

AUSTRALIA

Australian Mining & Smelting Ltd.
Melbourne, Victoria
Cobar Mines Pty. Ltd.,
Melbourne, Victoria
Electrolytic Zinc Company,
Melbourne Victoria
Kalgoorlie Mining Associates,
Fimiston, Western Australia
Metals Exploration Ltd.,
Melbourne, Victoria

AUSTRALIA Continued

Minerals, Mining & Metallurgy Ltd.,
Adelaide, South Australia
Mount Isa International Pty. Ltd.,
Brisbane, Queensland
North Broken Hill Limited,
Melbourne, Victoria
Peko-Wallsend Limited,
Sydney, New South Wales
Woodlawn Mines,
Goulburn, New South Wales
The Zinc Corporation Limited,
Melbourne, Victoria

JAPAN

Dowa Mining Company, Ltd.,
Tokyo
Hanawa Mines Company, Ltd.,
Tokyo
Hitachi Mines Co., Ltd.,
Tokyo
Japan Mining Industry Assoc.,
Tokyo
Kaneuchi Mines Co., Ltd.,
Tokyo
Mitsubishi Metal Corporation,
Tokyo
Mitsui Mining & Smelting Co., Ltd.,
Tokyo
Ohe Mines Company, Ltd.,
Tokyo
Shakanai Mines Company, Ltd.,
Tokyo
Sumitomo Metal Mining Co., Ltd.,
Tokyo
Toyoha Mines Company, Ltd.,
Tokyo

CHILE

Cía. Minera y Comercial Sali
Hochschild S.A.,
Santiago
Cía. Minera El Indio,
Santiago
Corporación Nacional del Cobre,
Santiago
Empresa Nacional de Minería,
Santiago

SWEDEN

Boliden Aktiebolag,
Stockholm
Vieille-Montagne,
Ammeberg

SOUTH AFRICA

Barberton Mines,
Johannesburg
Blyvooruitzicht Gold Mining
Company, Ltd.,
Johannesburg
Bracken Mines Ltd.,
Johannesburg
Buffelsfontien Gold Mining
Company, Ltd.,
Johannesburg
City Deep Ltd.,
Johannesburg
Consolidated Main Reef,
Johannesburg
Crown Mines, Ltd.,
Johannesburg
Deelkrall Gold Mining
Company, Ltd.,
Johannesburg
Doornfontein Gold Mining
Company, Ltd.,
Johannesburg
Durban Roodepoort Deep, Ltd.,
Johannesburg
East Daggafontein Mines,
Johannesburg
East Driefontein Gold Mining
Company, Ltd.,
Johannesburg
East Rand Proprietary Mines Ltd.,
Johannesburg
Elandsrand Gold Mining Co., Ltd.,
Johannesburg
Elsburg Gold Mining Co., Ltd.,
Johannesburg
Freddies Consolidated Mines Ltd.,
Johannesburg
Free State Geduld Mines, Ltd.,
Johannesburg
Free State Saaiplaas Gold
Mining Company, Ltd.,
Johannesburg

SOUTH AFRICA Continued

The Grootvlei Proprietary Mines Ltd.,
Johannesburg
Harmony Gold Mining Co., Ltd.,
Johannesburg
Hartebeestfontein Gold Mining
Company, Ltd.,
Johannesburg
Impala Platinum Limited,
Johannesburg
Kinross Mines Limited,
Johannesburg
Kloof Gold Mining Co., Ltd.,
Johannesburg
Leslie Gold Mines Limited,
Johannesburg
Libanon Gold Mining Co., Ltd.,
Johannesburg
Lorraine Gold Mines, Ltd.,
Johannesburg
The Messina (Tvl.) Development
Company, Ltd.,
Johannesburg
Marievale Consolidated Mines, Ltd.,
Johannesburg
O'Kiep Copper Company, Ltd.,
Johannesburg
President Brand Gold Mining Co., Ltd.,
Johannesburg
President Steyn Gold Mining Co., Ltd.,
Johannesburg
Prieska Copper Mine (Pty) Ltd.,
Johannesburg
Randfontein Estates Gold Mining
Company, Ltd.,
Johannesburg
Rustenburg Platinum Mines, Ltd.,
Johannesburg
St. Helena Gold Mines, Ltd.,
Johannesburg
South African Land and
Exploration Company, Ltd.,
Johannesburg
Stilfontein Gold Mining Co., Ltd.,
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Unisel Gold Mines Limited,
Johannesburg
Vall Reefs Exploration and
Mining Co., Ltd.
Johannesburg
Venterspost Gold Mining Co., Ltd.,
Johannesburg
Vlakfontein Gold Mining Co., Ltd.,
Johannesburg

Welkom Gold Mining Co., Ltd.,
Johannesburg
West Friefontein Gold
Mining Company, Ltd.,
Johannesburg
Western Areas Gold Mining
Company, Ltd.,
Johannesburg
Western Deep Levels, Ltd.,
Johannesburg
Western Holdings, Ltd.,
Johannesburg
Winkelhakk Mines, Ltd.,
Johannesburg
Witwatersrand Nigel Ltd.,
Johannesburg
West Rand Consolidated
Mines Limited,
Johannesburg

BOLIVIA

Corporación Minera de Bolivia,
La Paz

FRANCE

Mines et Produits Chimiques
de Salsigne,
Conques-sur-Orbiel
Société Minière et
Métallurgique de Peñarroya,
Paris
Cie. Royale Asturienne
des Mines,
Paris

HONDURAS

Rosario Resources Corporation,
San Pedro Sula

MOROCCO

Société Metallurgique
d'Imiter,
Rabat
Société Minière du
Djebel Aouam,
Meknes
Société Minière de Touissit,
Touissit

ZAIRE

Gecamines,
Lubumbashi

ARGENTINA

Cfa. Minera Aguilar, S.A.,
Buenos Aires
Norandex S.A.,
Buenos Aires

SPAIN

Río Tinto Patiño, S.A.,
Madrid
Peñarroya Espagne, S.A.,
Madrid

PHILIPPINES

Apex Mining Co., Inc.
Rizal
Benguet Consolidated, Inc.
Rizal
Benguet Exploration, Inc.
Manila
Itogon-Suyoc Mines, Inc.
Manila
Lepanto Consolidated Mining Co.,
Manila
Marcopper Mines Corporation,
Rizal
Marinduque Mining & Industrial
Corporation,
Manila
Philex Mining Corporation,
Rizal
Sabena Mining Corporation,
Manila
Samar Mining Company, Inc.,
Rizal
Western Minolco Corporation,
Manila

DOMINICAN REPUBLIC

Rosario Dominicana, S.A.,
Santo Domingo

ITALY

AMMI S.p.A.,
Rome
Societa Mineraria e
Metallurgica di Pertusola,
Rome

PAPUA NEW GUINEA

Bougainville Copper Ltd.,
Bougainville
New Guinea Gold Fields Ltd.,
Sydney

IRELAND

Irish Base Metals Ltd.,
Tynagh
Mogul of Ireland Ltd.,
Dublin

FINLAND

Outokumpu Oy,
Helsinki

SOUTHWEST AFRICA

Tsumeb Corporation, Ltd.,
Tsumeb

GREECE

Cie. Française des Mines
du Laurium,
Athens
Hellenic Chemical Products &
Fertilizers Company, Ltd.,
Athens

GERMAN FEDERAL REPUBLIC

A. G. Altenberg,
Luderich
Metallgesellschaft, AG,
Frankfurt
Preussag Aktiengesellschaft,
Goslar

DENMARK (Greenland)

Greenex A/S,
Copenhagen

INDIA

Hutti Gold Mines Company, Ltd.,
Karnataka

NICARAGUA

Neptune Mining Company,
Managua
Rosario Mining of Nicaragua, Inc.,
Managua

ZAMBIA

Nchanga Consolidated Copper
Mines Limited,
Lusaka

TURKEY

Etibank,
Ankara

BELGIUM

Société des Mines et Fonderies
de Zinc de la Vielle Montagne,
Angleur

BURMA

No. 1 Mining Corporation,
Rangoon

BRAZIL

Sté. Peñarroya,
Boquira

TAIWAN

Taiwan Metal Mining Corporation,
Keelung

GHANA

Ashanti Goldfields Corporation
(Ghana) Limited,
Obuasi

GREAT BRITAIN

Cornwall Tin & Mining Limited,
Truro, Cornwall
Rio Tinto - Zinc Corp., Ltd.,
London
Swiss Aluminum Mining (U.K.)
Limited,
Durham